

AN APPARATUS AND METHOD FOR GENERATING A WRITE CURRENT FOR A MAGNETIC MEMORY CELL

Abstract

The invention includes an apparatus and method for generating a write current for a magnetic memory cell. The apparatus includes a write current generator for generating a write current, the write current being magnetically coupled to the magnetic memory cell. The apparatus further includes at least one test magnetic memory cell, the write current being magnetically coupled to the at least one test magnetic memory cell. A switching response of the at least one test magnetic memory cell determines a magnitude of the write current generated by the write current generator. The method for determining a write current for a magnetic memory cell includes supplying a test write current to a test magnetic memory cell, sensing a magnetic state of the test magnetic memory cell to determine a switching response of the test magnetic memory cell, and generating the write current having a magnitude that is dependent upon the switching response.